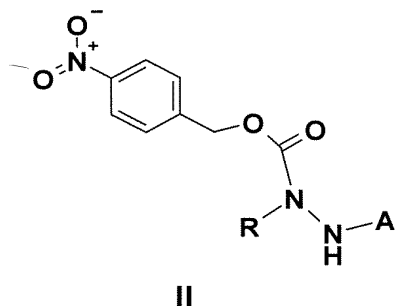


AMENDMENTS TO THE CLAIMS

1. – 12. (Canceled)

13. (Currently Amended) A process for the preparation of an aza-peptide comprising:

- a. reacting at least one aza-amino ~~an aza-amino~~ acid building block of Formula (II) with an amino acid, an aza-amino acid, a peptide, an aza-peptide or an azatide to ~~form a~~ form an aza-peptoidic bond through aza-peptide coupling:



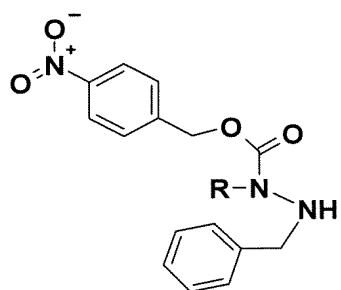
wherein R is selected from H and C₁-C₆ alkyl;

A is any functional group of an amino acid;

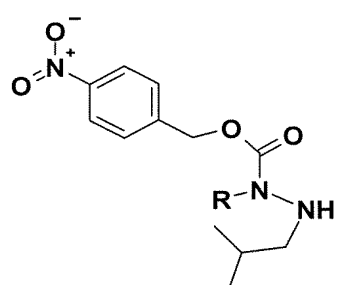
R and A can form a C₃-C₆-heterocycloalkyl ring and

- b. removing the para-nitro carbobenzyloxy group.

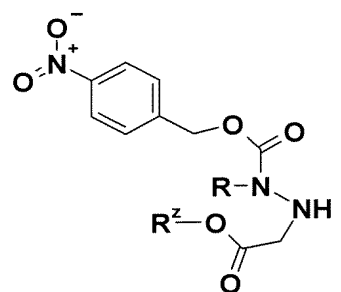
14. (Previously Presented) The process according to claim 13 wherein the at least one aza-amino acid building block in step a) is selected from Formulae III, IV, V and VI:



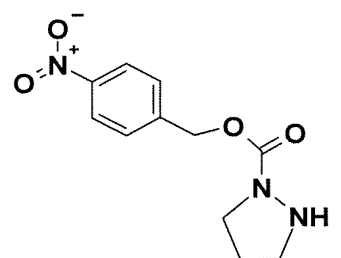
III



IV



V



VI

wherein R is selected from H and C₁-C₆ alkyl;

R^Z is selected from $-\text{CH}_2-\text{CH}=\text{CH}_2$ and $-\text{tert-butyl}$.

15. (Previously Presented) The process according to claim 14 wherein R is H.

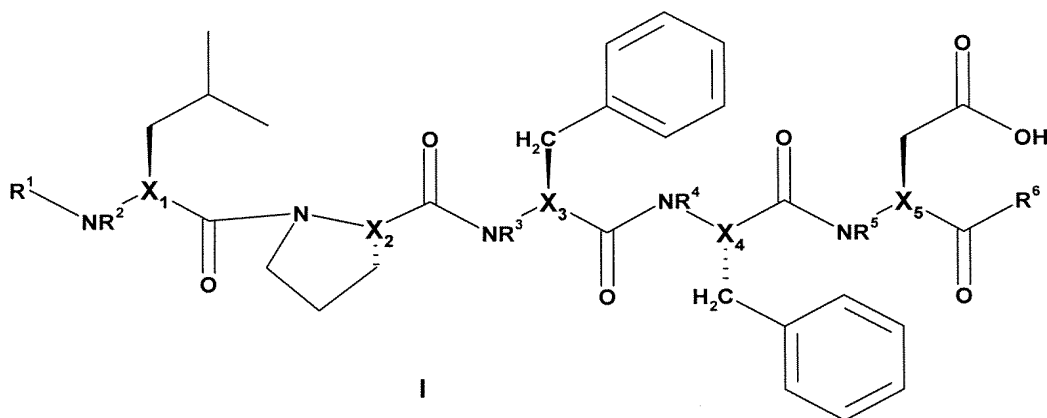
16. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of a total sequence from 2 to 10 peptoid units in length.

17. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of a total sequence from 2 to 5 units peptoid units in length.

18. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide having between 2 to 10 aza-amino acids.

19. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide having between 2 to 5 aza-amino acids.

20. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of Formula I:



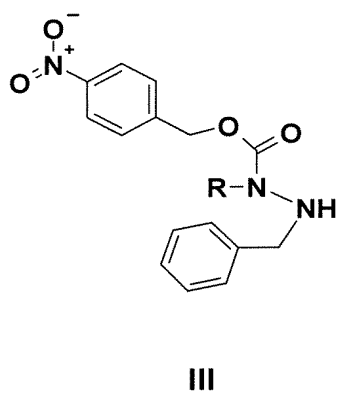
wherein R^1 is selected from H, C_2 - C_6 acyl and C_1 - C_6 alkyl;

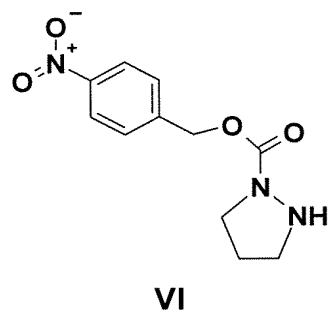
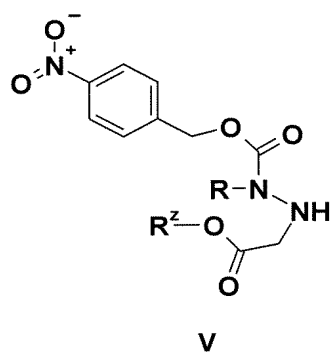
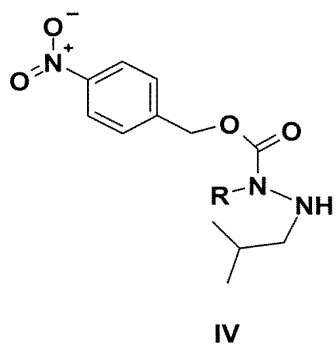
R^2 , R^3 , R^4 and R^5 are independently selected from H and C_1 - C_6 alkyl;

R^6 is selected from OH and NR^7R^8 , wherein R^7 and R^8 are independently selected from H and C_1 - C_6 alkyl;

X_1 , X_2 , X_3 , X_4 and X_5 are independently selected from CR^9 or N wherein R^9 is selected from H and C_1 - C_6 alkyl and with the condition that at least one among X_1 , X_2 , X_3 , X_4 and X_5 is N; as well as any chiral derivative thereof.

21. (Currently Amended) A synthetic aza-peptide building block having a Formula selected from Formulae III, IV, V and VI;





wherein R is selected from H and C₁-C₆ alkyl;

R^Z is selected from -CH₂-CH=CH₂ and -tert-butyl.

22. (Original) A synthetic aza-peptide building block of claim 21 wherein R is H.

23. – 27 (Canceled)